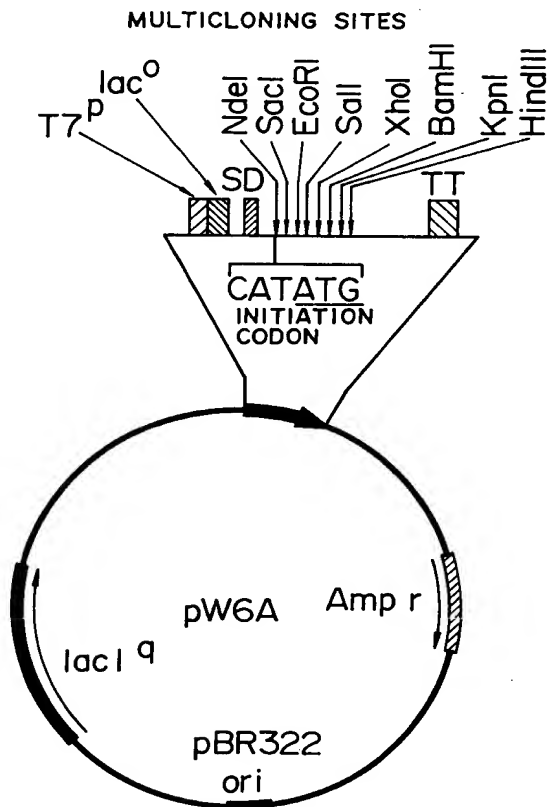


1//1

FIG. 1
DETAILED DIAGRAM OF EXPRESSION VECTOR pW6A



T7^P : T7 PROMOTER
 lac^O : lac OPERATER
 SD : SHINE-DALGARNO SEQUENCE
 TT : T7 TRANSCRIPTIONAL TERMINATOR

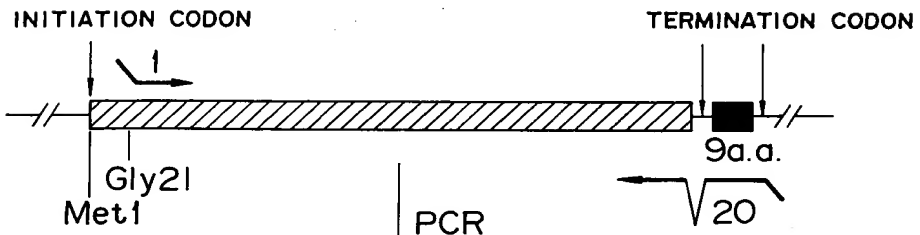
Amp r : β LACTAMASE
 lacI q : lac REPRESSOR
 pBR322 ori : REPLICATION ORIGIN

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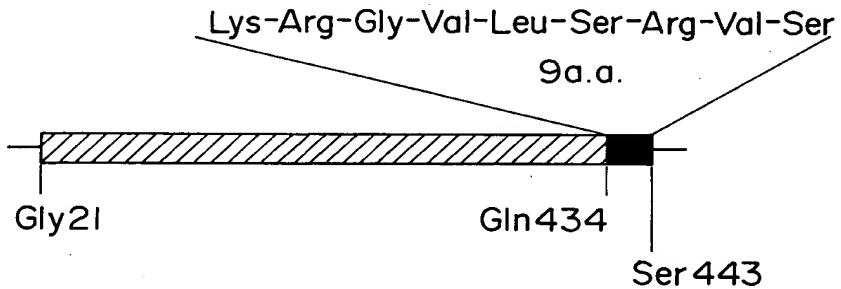
FIG. 2

PREPARATION OF GENE ENCODING 47K ANTIGEN

GENE ENCODING 47K ANTIGEN ON GENOMIC DNA



GENE ENCODING 47K ANTIGEN WITH C TERMINAL EXTRA SEQUENCE
(N TERMINAL SIGNAL SEQUENCE IS DELETED)

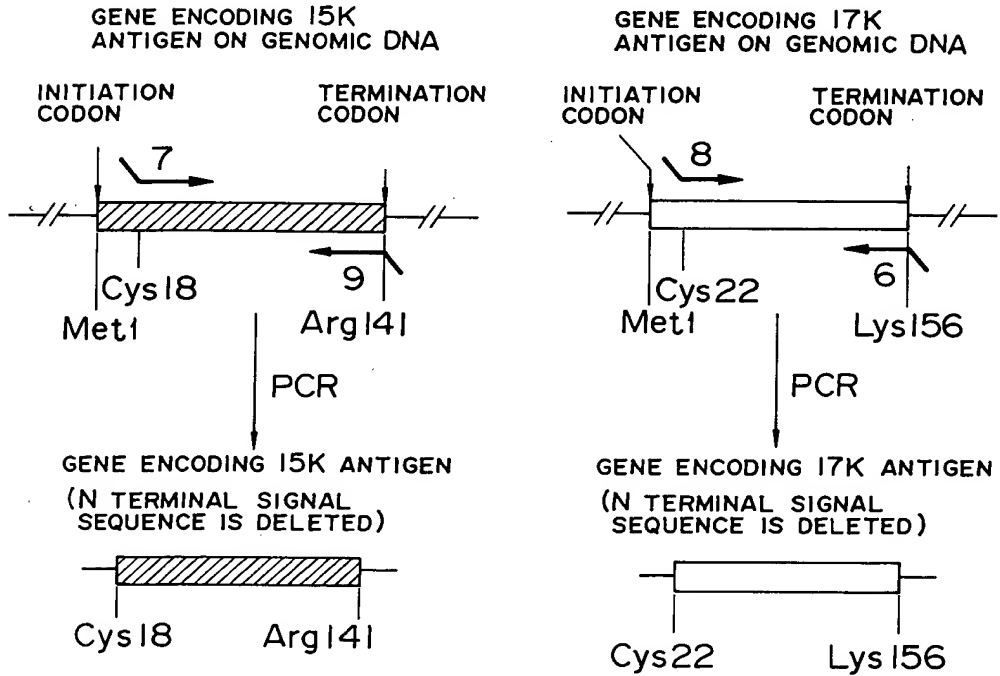


← : PRIMER

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FIG. 3

PREPARATION OF GENE ENCODING 15K ANTIGEN AND 17K ANTIGEN



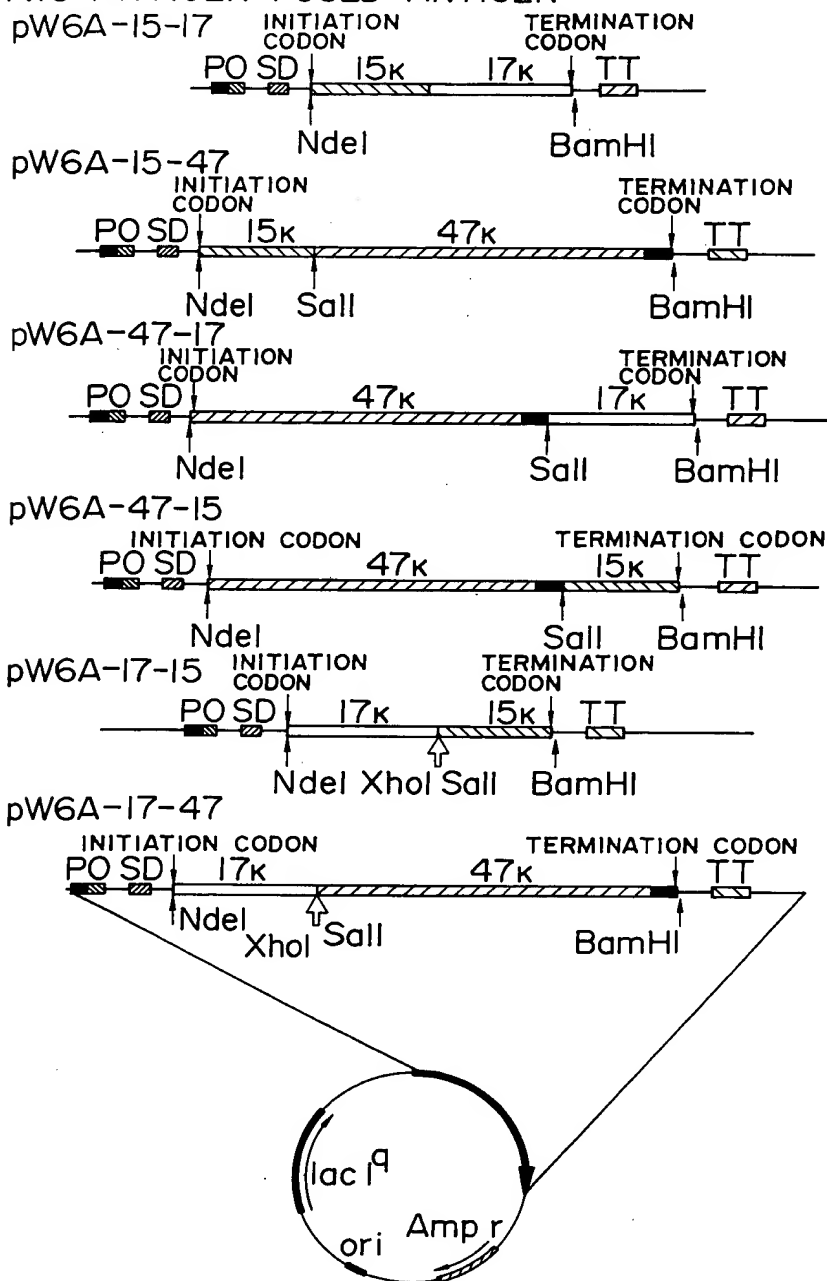
⤵ : PRIMER

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FIG. 4

DETAILED DIAGRAM OF EXPRESSION VECTOR FOR TWO-ANTIGEN FUSED ANTIGEN

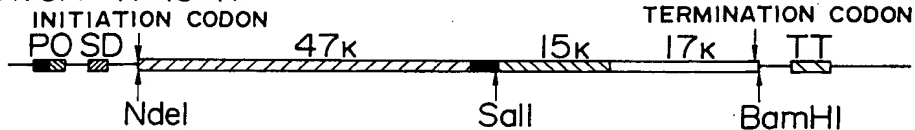


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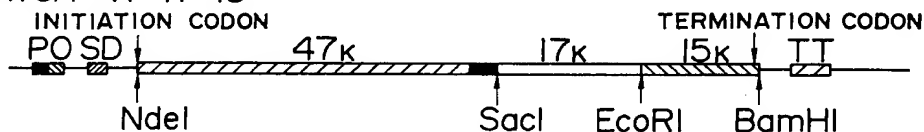
FIG. 5

DETAILED DIAGRAM OF EXPRESSION VECTOR FOR
THREE-ANTIGEN FUSED ANTIGEN

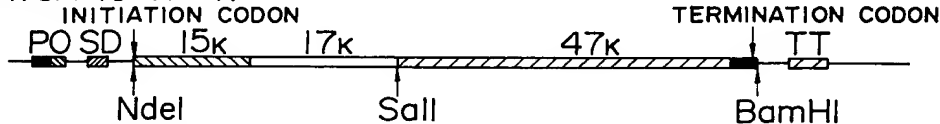
pW6A-47-15-17



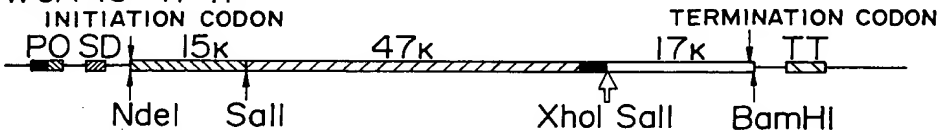
pW6A-47-17-15



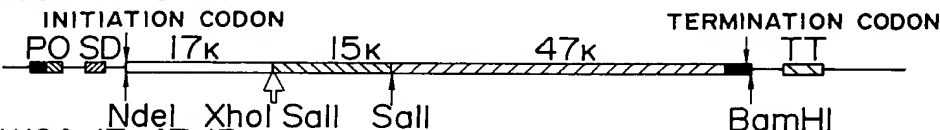
pW6A-15-17-47



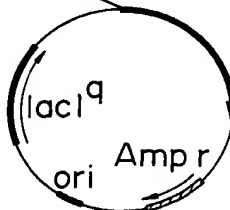
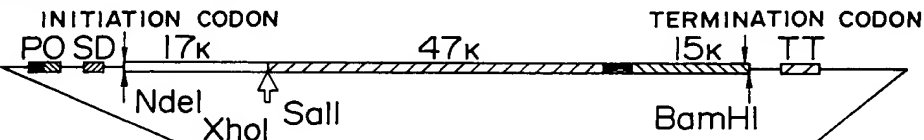
pW6A-15-47-17



pW6A-17-15-47



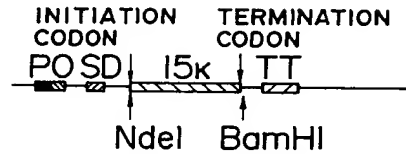
pW6A-17-47-15



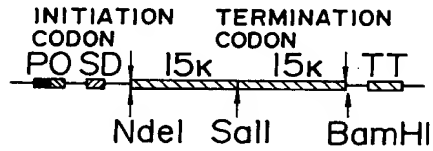
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FIG. 6

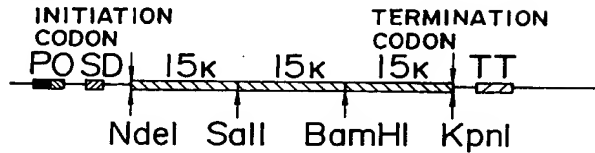
pW6A-15



pW6A-15-15



pW6A-15-15-15



pW6A-15-15-15-15

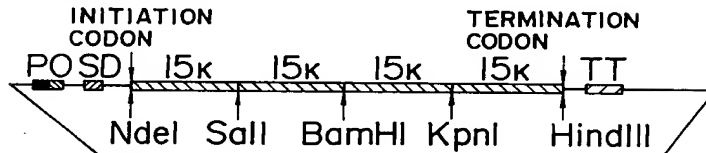
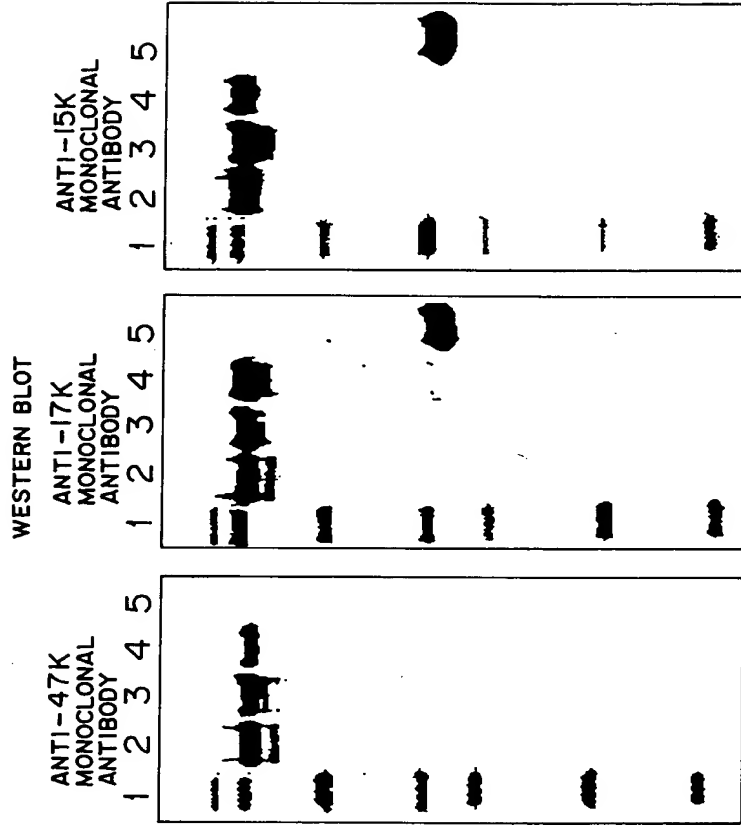
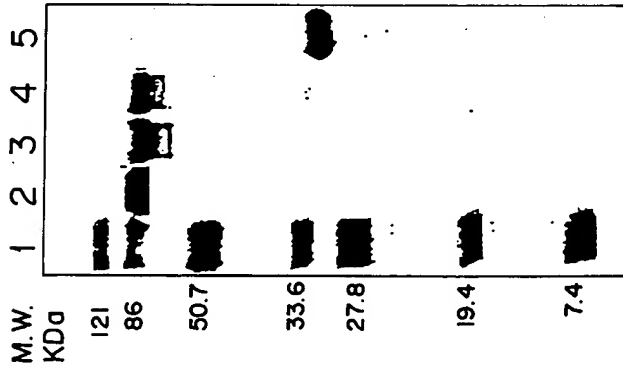


FIG. 7 COOMASSIE STAIN



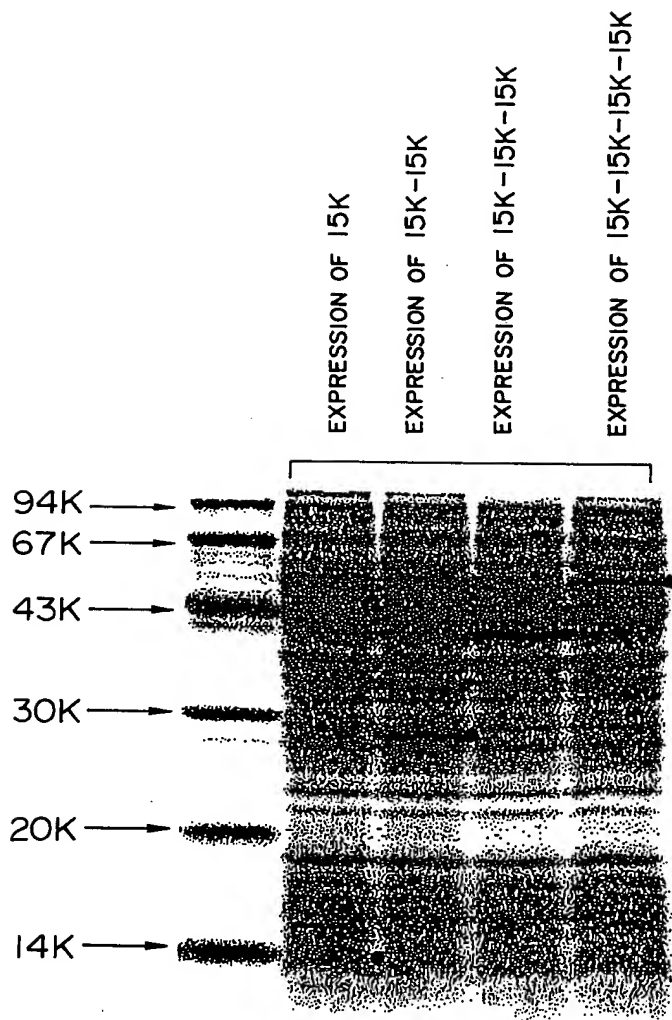
LANE 1 : MOLECULAR WEIGHT MARKER

- 2 : 47-17-15
- 3 : 47-15-17
- 4 : 15-17-47
- 5 : 15-17

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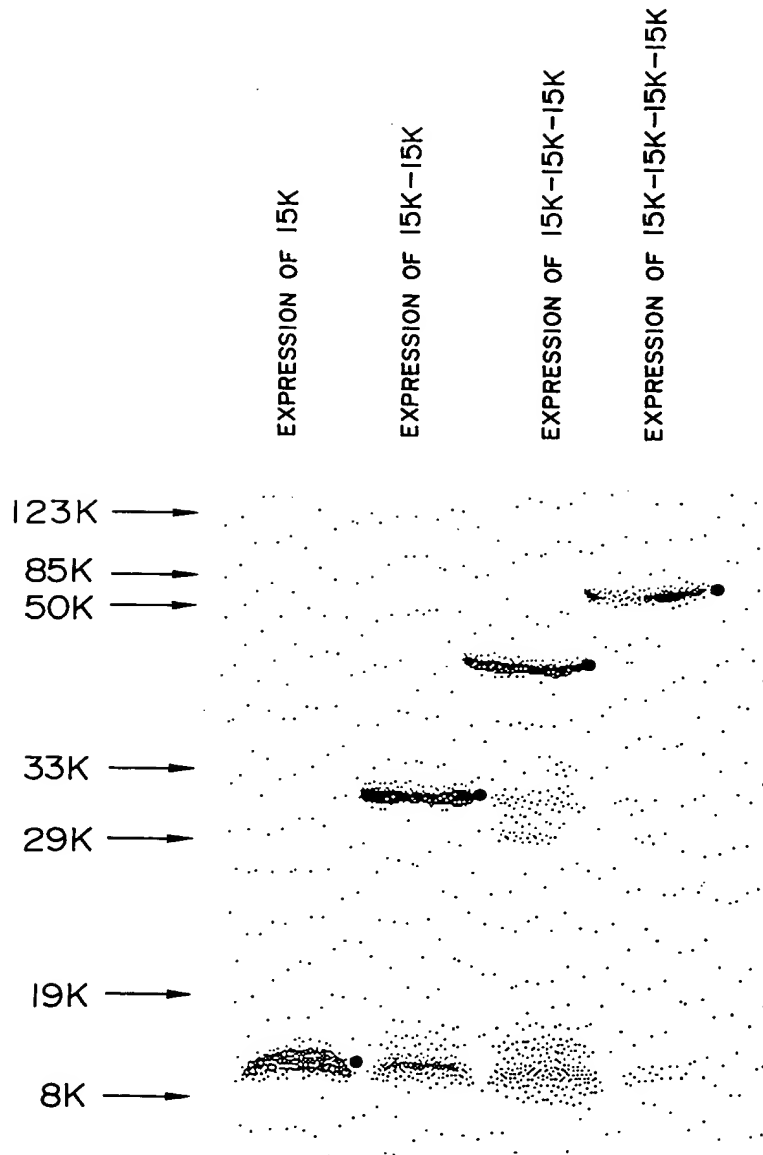
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FIG. 8



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FIG. 9



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EXPRESSION OF
15K-15K-15K-15K

EXPRESSION OF
15K-15K-15K

EXPRESSION OF
15K-15K

EXPRESSION OF 15K

BSA 1.8 μ g/lane

BSA 0.45 μ g/lane

BSA 0.1 μ g/lane

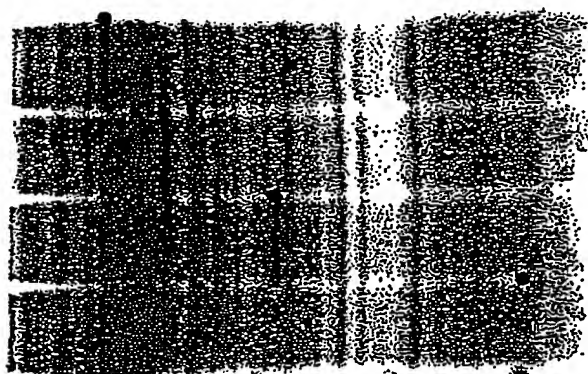
BSA 0.028 μ g/lane

BSA 0.007 μ g/lane

BSA 0.002 μ g/lane

ESCHERICHIA COLI LYSATE

LMW MARKER



94K

67K

43K

30K

20K

14K

FIG. 10

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FIG. 11

